

WHAT IS CLAIMED IS:

1. Structural platform for a motor vehicle, forming a tank for the storage on the vehicle of a fluid under pressure, the said tank comprising at least one network of cells connected together via interconnections, the interconnections being conformed so that the flow of fluid caused by the consumption of fluid necessary for the use of the vehicle exhibits only pressure drops not affecting the said use, and being conformed so that, in the event of rupture of one or more cells, the leakage flow causes sufficiently high pressure drops to limit the flow rate thereof.
2. Structural platform according to Claim 1, comprising at least one network of at least a hundred and no more than a hundred thousand cells connected together via interconnections.
3. Structural platform according to Claim 1, each interconnection being formed by an orifice.
4. Structural platform according to Claim 1, in which each cell comprises a central part whose wall is substantially cylindrical and a cap at each end.
5. Structural platform according to Claim 1, comprising several networks of cells connected in series, the networks being connected in parallel.
6. Structural platform according to Claim 1, comprising a device supplying in parallel several non-adjacent cells, through specific orifices, the device being provided with valves which provide a seal after filling.
7. Structural platform according to Claim 1, integrating a second independent tank for storing another different fluid.
8. Structural platform according to Claim 7, in which the second tank comprises at least one network of cells connected together via interconnections, the interconnections being conformed so that the flow of fluid caused by the consumption of fluid necessary for the use of the vehicle exhibits only pressure drops not affecting the said use, and being conformed so that, in the event of rupture of one or more cells, the leakage flow causes sufficiently high pressure drops to limit the flow rate thereof.
9. Structural platform according to Claim 7, comprising a base which comprises as many recesses as there are cells, the base having a flattened shape

having a first face and an opposite face substantially parallel to the first face, the recesses all extending from the first face to the opposite face and all opening out at the first face and not opening out at the opposite face, each recess being closed by a cover sealingly fixed so as to form a cell, the said orifices being provided in the base in order to put the recesses in communication.

10. Structural platform according to Claim 9, in which each recess comprises a first part with a substantially cylindrical shape, extending between the first face and an intermediate level situated between the first face and the opposite face, each recess comprising a second part extending the first and comprising a wall forming a cap.

11. Structural platform according to Claim 9, in which each cover comprises a trunk whose wall is substantially cylindrical and with an outside diameter smaller than or equal to the inside diameter of the first part of each recess, each cover comprising a bottom, all the covers being inserted and adhesively bonded in the recesses.

12. Structural platform according to Claim 9, in which each cover is screwed into recesses, with the interposing of a seal.

13. Structural platform according to Claim 8 in which, between the tank and the second tank, a separation area with no cells is left.

14. Structural platform according to Claim 8 in which, between the tank and the second tank, a separation area is left, provided with cells which do not communicate with the cells of the adjacent tanks.

15. Vehicle equipped with a structural platform according to Claim 1, the floor forming at least partially a bearing structure on which various components of the said vehicle are mounted.

16. Vehicle according to Claim 15, comprising a fuel cell, the tank integrated in the structural platform providing the storage of gaseous hydrogen.

17. Vehicle according to Claim 16, comprising a fuel cell and two tanks integrated in the structural platform, one of the tanks providing the storage of gaseous hydrogen and the other tanks providing the storage of gaseous oxygen.